

CLAIMS

1. An amphibious vehicle having a hull provided with at least one pair of wheels on opposite sides of the vehicle, each wheel of the pair being mounted by means of a suspension to the body of the vehicle, the suspension being so arranged as to be enabled by retraction means to retract its wheel upwards into a stowed position, an anti-roll bar being mounted so as to connect the suspensions on opposite sides of the vehicle, the anti-roll bar being further arranged to partially rotate from a first position in road mode to a second position in marine mode.
2. An amphibious vehicle according to claim 1, where said pair of wheels are front wheels,
3. An amphibious vehicle according to claim 1, where said pair of wheels are rear wheels.
4. An amphibious vehicle according to any of the above claims, where said pair of wheels are steered.
5. An amphibious vehicle according to any of the above claims, where said pair of wheels are passively steered.
6. An amphibious vehicle according to any of the above claims, where said pair of wheels are driven wheels.
7. An amphibious vehicle according to any of the above claims, where the anti-roll bar is mounted to the vehicle by means of at least one bearing, so that when the wheels are retracted, the anti-roll bar rotates about a single axis.
8. An amphibious vehicle according to claim 7, where the anti-roll bar is sealed within the vehicle by means of an elastomeric seal, located within a water tight exterior bodywork of the vehicle.

9. An amphibious vehicle according to claim 8, where the seal has an internal circular lip portion extending outwardly from an inner part of the seal, the lip portion being arranged to seat against the anti-roll bar.

5

10. An amphibious vehicle according to any one of claims 1 to 7, where the anti-roll bar is sealed within the vehicle by means of an elastomeric seal, located to a water tight exterior bodywork of the vehicle, and wherein the seal has an internal circular lip portion extending inwardly from an outer part of the seal, the lip portion being arranged to seat against the anti-roll bar.

10

11. An amphibious vehicle according to claim 8, where the seal has an internal circular lip portion extending outwardly from an inner part of the seal, the lip portion being arranged to seat against a ring or collar around the anti-roll bar.

15

12. An amphibious vehicle according to any one of claims 1 to 7, where the anti-roll bar is sealed within the vehicle by means of an elastomeric seal, located to a water tight exterior bodywork of the vehicle, and wherein the seal has an internal circular lip portion extending inwardly from an outer part of the seal, the lip portion being arranged to seat against a ring or collar around the anti-roll bar.

20

13. An amphibious vehicle according to claim 11 or claim 12, where the ring or collar is continuously welded to the anti-roll bar.

14. An amphibious vehicle according to any of the above claims, where the vehicle may be operated as a planing vehicle in marine mode.

25

15. An amphibious vehicle as herein described or as illustrated in any one or more of Figures 2 to 7.

30